In the Claims:

Claims 1, 3-17, and 20 to 46 are pending in the application.

Claims 1, 3-17, and 20 to 46 stand allowed.

Explanation of Amendments in the Claims:

1.(currently amended) A climate control system for use in a greenhouse having an exterior wall structure which includes primarily transparent panels allowing entry to an interior of natural light, the system being arranged for conditioning the air within the interior and comprising:

a plurality of benches arranged to be located within the interior and provide support surfaces for supporting crop materials thereon for receiving the natural light and growing within the interior; and

a plurality of air handling systems each associated with a respective one of the plurality of benches and each comprising:

an air intake plenum having at least one air intake,

a fan connected to the air intake plenum,

an outlet duct connected to the fan having an air outlet for expelling air from the outlet duct into the interior of the greenhouse,

and at least one air conditioning component for conditioning the air transported from the air intake plenum to the outlet duct by the fan;

the air intake plenum of each of the <u>plurality of air handling systems</u> including at least a part thereof mounted underneath the respective one of the <u>plurality of benches</u> and forming at least a part of a support for the respective one of the <u>plurality</u> of benches.

2.(Cancelled)

- 3.(currently amended) The system according to Claim 1 wherein the part of the air intake plenum under the respective one of the <u>plurality of</u> benches defines a rectangular housing arranged for supporting a horizontal bench top.
- 4.(original) The system according to Claim 3 wherein the horizontal bench top is slidable side to side across the housing.
- 5.(original) The system according to Claim 3 wherein the horizontal bench top is tiltable about a horizontal axis longitudinally along the housing
- 6.(currently amended) The system according to Claim 1 wherein the outlet duct includes a vertical duct section at one end of the respective one of the plurality of benches.
- 7.(currently amended) The system according to Claim 6 wherein the outlet duct includes a horizontal discharge duct section connected to the vertical duct section and extending over the respective one of the <u>plurality of</u> benches for discharging the air therefrom downwardly onto the respective one of the <u>plurality of</u> benches.
- 8.(original) The system according to Claim 7 wherein the horizontal duct section comprises a flexible tube shaped to form an elliptical cross section which is wider than it is high.
- 9.(currently amended) The system according to Claim 1 wherein the air intake plenum underneath the respective one of the <u>plurality of</u> benches contains at least one heating coil for heating the air.
- 10.(currently amended) The system according to Claim 1 wherein the air intake plenum underneath the respective one of the <u>plurality of</u> benches contains at least one cooling coil for cooling the air.

The system according to Claim 10 wherein 11.(currently amended) said at least one air intake of the air intake plenum underneath the respective one of the plurality of benches includes a plurality of air intakes and wherein there is provided a respective one of a plurality of cooling coils at each of the plurality of air intakes.

12.(previously amended) The system according to Claim 11 wherein supply of cooling fluid to each of the plurality of cooling coils is controlled by a cooling system which is arranged to effect sub-cooling at one of the plurality of cooling coils for de-humidifying the air.

13.(currently amended) The system according to Claim 1 wherein the fan is located in a fan housing at one end of the respective one of the <u>plurality of</u> benches.

The system according to Claim 1 wherein there 14.(currently amended) is provided an air flow connection which is arranged to communicate with one sidewall of the exterior wall structure at one end of the respective one of the <u>plurality of</u> benches.

The system according to Claim 1 wherein said 15.(currently amended) at least one air intake of the air intake plenum includes one air intakes intake at each side and one air intake at an end.

16.(currently amended) The system according to Claim 1 wherein the air intake plenum underneath the respective one of the plurality of benches contains fogging nozzles for applying water droplets to the air.

17.(original) The system according to Claim 16 wherein the fogging nozzles are supplied with water under pressure from a fogging water supply system including a water pump operable to supply water under pressure to an accumulator tank having a gas membrane, the tank being arranged to supply the water under pressure to the nozzles and including a pressure control valve arranged to operate the pump to maintain the pressure within the tank between upper and lower pressure limits so as operate the pump only when the lower pressure limit is reached.

18.(Cancelled)

19.(Cancelled)

20.(currently amended) A climate control system for use in a greenhouse having an exterior wall structure which includes primarily transparent panels allowing entry to an interior of natural light, the system being arranged for conditioning the air within the interior and comprising:

a plurality of benches each arranged to be located within the interior and provide support surfaces for supporting crop materials thereon for receiving the natural light and growing within the interior; and

a plurality of air handling systems each comprising:

an air intake plenum having at least one air intake,

a fan connected to the air intake plenum,

an outlet duct connected to the fan having an air outlet for expelling air from the outlet duct into the interior of the greenhouse,

and at least one air conditioning component for conditioning the air transported from the air intake plenum to the outlet duct by the fan;

the plurality of air handling systems being equal in number to the plurality of elongate benches such that each bench has associated therewith a respective one of the plurality of air handling systems.

- 21.(currently amended) The system according to Claim 20 wherein the outlet duct of each of the plurality of air handling systems includes a vertical duct section at one end of the respective bench of the plurality of benches.
- The system according to Claim 21 wherein the 22.(currently amended) outlet duct of each of the plurality of air handling systems includes a horizontal discharge duct section connected to the vertical duct section and extending over the respective bench of the plurality of benches for discharging air downwardly onto the respective bench of the plurality of benches.
- 23.(original) The system according to Claim 22 wherein the horizontal duct section comprises a flexible tube shaped to form an elliptical cross section which is wider than it is high.
- 24.(previously amended) The system according to Claim 20 wherein each air intake plenum contains at least one heating coil for heating the air.
- 25.(previously amended) The system according to Claim 20 wherein each air intake plenum contains at least one cooling coil for cooling the air.
- 26.(previously amended) The system according to Claim 20 wherein said at least one air intake of each air intake plenum includes at least two air intakes and wherein there is provided a cooling coil at each of the air intakes.
- 27.(previously amended) The system according to Claim 26 wherein supply of cooling fluid to each of the cooling coils is controlled by a cooling system which is arranged to effect sub-cooling at one of the cooling coils for de-humidifying the air.

- 28.(currently amended) The system according to Claim 20 wherein the fan of each air handling system of the plurality of air handling systems is located in a housing at one end of the respective bench of the plurality of benches.
- The system according to Claim 20 wherein the 29.(currently amended) outlet duct of each air handling system of the plurality of air handling systems is arranged to communicate with exterior air at one sidewall of the exterior wall structure at one end of the respective bench of the plurality of benches.
- The system according to Claim 37 wherein the 30.(currently amended) fan is mounted in a fan housing with the fan housing at one end of the respective bench of the plurality of benches arranged to be located at one exterior wall of the greenhouse and wherein the fan housing has a connection for exterior air arranged to extend through said one exterior wall.
- 31.(currently amended) The system according to Claim 20 wherein the each bench of the plurality of benches has at least a part of the air intake plenum mounted underneath the respective bench of the plurality of benches as at least a part of the support therefor.
- 32.(currently amended) The system according to Claim 31 wherein the air intake plenum under the respective bench of the plurality of benches defines a rectangular housing arranged for supporting a horizontal bench top.
- 33.(previously amended) The system according to Claim 31 wherein the horizontal bench top is slidable side to side across the housing.
- 34.(previously amended) The system according to Claim 32 wherein the horizontal bench top is tiltable about a horizontal axis longitudinally along the housing

35.(currently amended) The system according to Claim 20 wherein the outlet duct includes a vertical duct section at one end of the respective bench of the plurality of benches.

36.(currently amended) The system according to Claim 35 wherein the outlet duct includes a horizontal discharge duct section connected to the vertical duct section and extending over the <u>respective</u> bench <u>of the plurality of benches</u> for discharging air downwardly onto the <u>respective</u> bench <u>of the plurality of benches</u>.

37.(previously amended) A climate control system for use in a greenhouse having an exterior wall structure which includes primarily transparent panels allowing entry to an interior of natural light, the system being arranged for conditioning the air within the interior and comprising:

a bench arranged to be located within the interior and provide support surfaces for supporting crop materials thereon for receiving the natural light and growing within the interior:

an air handling system comprising:

an air intake plenum having at least one air intake,

an outlet duct connected to the fan having at least one air outlet for expelling air from the outlet duct into the interior of the greenhouse,

a fan connected to the plenum and the outlet duct and arranged to transfer air from the plenum to the outlet duct;

and at least one air conditioning component for conditioning the air transported from the air intake plenum to the outlet duct by the fan;

the air intake plenum including at least a part thereof mounted underneath the bench with the at least one air intake thereof located so as to draw air into the plenum from underneath the bench;

and the outlet duct including at least a part thereof above the bench with the at least one air outlet thereof arranged for discharge of the conditioned air at a position above the bench to as to travel downwardly onto the bench.

38.(currently amended) The system according to Claim 37 including a plurality of benches wherein each bench of the plurality of benches has associated therewith a respective air intake plenum and a respective fan and wherein at least a part of the plenum associated therewith is mounted underneath the respective bench of the plurality of benches and forming at least a part of a support for the respective bench of the plurality of benches.

- 39.(previously amended) The system according to Claim 37 wherein the part of the air intake plenum under the bench defines a rectangular housing arranged for supporting a horizontal bench top.
- 40.(previously amended) The system according to Claim 39 wherein the horizontal bench top is slidable side to side across the housing.
- 41.(previously amended) The system according to Claim 39 wherein the horizontal bench top is tiltable about a horizontal axis longitudinally along the housing.
- 42.(previously amended) The system according to Claim 37 wherein the outlet duct includes a vertical duct section at one end of the bench.
- 43.(previously amended) The system according to Claim 42 wherein the outlet duct includes a horizontal discharge duct section connected to the vertical duct

section and extending over the bench with the at least one air outlet thereof arranged on an underside thereof for discharging the air therefrom downwardly onto the bench.

- 44.(previously amended) The system according to Claim 43 wherein the horizontal duct section comprises a flexible tube shaped to form an elliptical cross section which is wider than it is high.
- 45.(previously amended) The system according to Claim 37 wherein there is provided an air flow connection which is arranged to communicate with one sidewall of the exterior wall structure at one end of the bench.
- 46.(previously presented) The system according to Claim 43 wherein the at least one air outlet comprises a plurality of perforations in the underside of the horizontal duct section.